	Application No.	Applicant(s)
	Application No.	Applicatings
Notice of Allowability	09/545,334	HABBEN ET AL.
	Examiner	Art Unit
	Stuart F. Baum	1638
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to papers filed 12/16/20	<u>004</u> .	
2. The allowed claim(s) is/are <u>1-4, 8, 17, 21, 30, 33, 42-47, 6</u>	4-65 (renumbered 1-17).	•
3. \boxtimes The drawings filed on <u>07 April 2000</u> are accepted by the E	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	C'S AMENDMENT or NOTICE OF ation is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying Indicla such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the second sheet.	son's Patent Drawing Review(PTO . s Amendment / Comment or in the 0 .84(c)) should be written on the drawi	Office action of ngs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL (FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☑ Interview Summary Paper No./Mail Da 08), 7. ☑ Examiner's Amend	ite <u>0205</u> .
	Stuart F. Baum	

EXAMINER'S AMENDMENT

RCE Acknowledgment

- 1. The request filed on 12/16/2004 for a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114, based on parent Application No. 09/545,334 is acceptable and a RCE has been established. An action on the RCE follows.
- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. Authorization for this examiner's amendment was given in a telephone interview with Karen Varley on 2/25/2005 and Debra L. Blair on 3/2/2005.

Oath and Declaration

Applicant is now required to submit a substitute declaration or oath to correct the deficiencies set forth; Applicants claimed benefit to provisional application 60/129,844 under 35USC 119(e) needs to be specified in the oath or declaration. The substitute oath or declaration must be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability" (PTO-37). Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136. Failure to timely file the substitute declaration (or oath) will result in ABANDONMENT of the application. The transmittal letter accompanying the declaration (or oath) should indicate the date of the "Notice of Allowance" (PTOL-85) and the application number in the upper right hand corner.

Page 3

5. IN THE SPECIFICATION:

The paragraph starting on page 17, line 33, has been replaced with:

-- The introduced restriction sites are bolded. The portion of the primer that binds to the

template extends from nucleotides 22 and 19 to the 3' terminus, respectively. A BamHl site

"ggatcc" (bolded) and a Kozak consensus sequence were introduced before the start codon and a

Hpal site "gttaac" (also bolded) was introduced after the stop. [Following is a schematic showing

how the primers attach to the published Sequence.

BamHl

5'caucaucauggatccaccaatggatctacgtctaattttcggtccaac

aatggatctacgtctaattttcggtccaacttgcacagg

aaagacatcgactgcgatagctcttgcccagcagactggcctcccagtcctctgctcgatcgctccaatgctgtcctcaactatcaaccg

gaagcggcgaccaacagtggaagaactgaaaggaacgactcgtctgtaccttgatgatcgccctttggtaaagggtatcattacagccaa

gcatggcgcaaagtcgttattggaacgcggattttcgttggcatattattcgcaacgagttagcagacgaggagagcttcatgagcgtggcc

a agac cag agt ta ag cag at gtt acgcccctct g cag gtctttct at tatcca ag agt t ggtt caact tt g gag g g g cctc g g ct g ag g ccc ag g ctc g g ct g ag g ccc ag g ctc g g ct g ag g ccc ag g ctc g g ct g ag g ccc ag g ctc g g ct g ag g ccc ag g ctc g g ctc g

atactggaagggatcgatggatatcgatatgcctgctatttgctacccagaaccagatcacgcccgatatgctattgcagctcgacgcagat

atggagaataaattgattcacggtatcgctcaggagtttctaatccatgcgcgtcgacaggaacagaaattccctttggtgggcgcgacagct

gtcgaagcgtttgaaggaccaccatttcgaatgtga

3'cctggtggtaaagcttacactcattgaucaucaucauc

Hpal]--

Page 4

Application/Control Number: 09/545,334

Art Unit: 1638

6. IN THE CLAIMS:

Claims 9, 11, 22, 24, 34, 36, 48, 50-52, 54-56, 58-59 have been canceled.

- --1. (Currently amended) A method for producing transgenic plants comprising: transforming plant host cells with a genetic construct, said construct comprising a [tissue-preferred, tissue-specific, or temporally-regulated] seed preferred or seed specific promoter driving expression in developing seeds [or related maternal tissue], wherein said promoter is operably linked to an isolated polynucleotide encoding an isopentenyl transferase, wherein the isolated polynucleotide is expressed in the transformed plant [cell] cells; and regenerating [and recovering said] transgenic plants from said transformed plant cells, wherein said plants exhibit one or more traits selected from the group consisting of [improved] increased seed size, [decreased seed abortion and increased seed set during unfavorable environmental conditions,] and increased seed number relative to a [control plant] plant not transformed with said construct.
- 2. (Previously presented) The method according to Claim 1 wherein [the transformation is carried out] transforming is by a process selected from the group consisting of electroporation, PEG poration, particle bombardment, silicon fiber delivery, microinjection, and Agrobacterium-mediated transformation.--
- --17. (Currently amended) A transgenic plant comprising a genetic construct stably integrated into the genome thereof, said construct comprising a [tissue-preferred, tissue-specific, or temporally-regulated] seed preferred or seed specific promoter driving expression in

Art Unit: 1638

developing seeds [and/or related maternal tissue], wherein said promoter is operably linked to an isolated polynucleotide encoding an isopentenyl transferase, and wherein said plant exhibits one or more traits selected from the group consisting of [improved] increased seed size, [decreased seed abortion and increased seed set during unfavorable environmental conditions,] and increased seed number relative to a [control plant] plant not transformed with said construct.—

- --30. (Currently amended) An isolated recombinant DNA molecule comprising a [promoter directing temporal and/or spatial gene expression in plant seeds and/or related maternal tissue] seed preferred or seed specific promoter, wherein said promoter is operably linked to an isolated polynucleotide encoding an isopentenyl transferase.--
- --43. (Currently amended) A method for [improving stress tolerance and yield stability] increasing seed number and/or seed size [in plants] comprising stably transforming plant host cells with a genetic construct, said construct comprising a [tissue-preferred, tissue-specific, or temporally-regulated promoter] seed preferred or seed specific promoter driving expression in developing seeds [and/or related maternal tissue], wherein said promoter is operably linked to an isolated polynucleotide encoding an isopentenyl trasferase, and regenerating [and recovering] plants from said cells, wherein the introduced DNA is expressed in seed of the transformed plants and said [regenerated] plants exhibit [improved stress tolerance or yield stability] an increase in seed number and/or seed size compared to plants not transformed with said construct.--

Page 6

Art Unit: 1638

44. (Currently amended) The method according to claim 43 wherein said [preferential] seed expression is initiated within the range of from about 14 days prior to pollination to about 25 days after pollination.

- 45. (Currently amended) The method according to Claim 43 wherein said [preferential] seed expression is initiated within the range of from about 14 days prior to about 21 days after pollination.
- 46. (Currently amended) The method according to Claim 43 wherein said [preferential] seed expression is initiated within the range of from about 14 days prior to about 12 days after pollination.
- 47. (Currently amended) The method according to Claim 43 wherein said [preferential] seed expression is initiated within the range of from about 14 days prior to pollination to zero days after pollination.--
- --64. (Currently amended) A method for producing transgenic plants [wherein] <u>having</u> increased cytokinin content[,] in developing seeds [and/or related maternal tissue, is increased relative to a control plant] <u>compared to an untransformed plant</u> comprising: transforming plant host cells with a genetic construct, said construct comprising a [tissue-preferred tissue-specific, or temporally-regulated] <u>seed preferred or seed specific promoter driving expression in developing seeds [or related maternal tissue], wherein said promoter is operably linked to an isolated polynucleotide encoding an isopentenyl transferase, and wherein the isolated polynucleotide is expressed in the transformed plant cells; regenerating plants from said transformed cells; and [recovering] <u>selecting</u> [said] plants with increased cytokinin content <u>in</u></u>

Application/Control Number: 09/545,334

Art Unit: 1638

seeds, compared to seeds of a plant not transformed with said construct by selecting [viviparous seed on regenerated] plants with viviparous seed.

- 65. (Currently amended) A method for producing transgenic plants wherein cytokinin content, in developing seeds [and/or related maternal tissue,] is increased relative to [a control] a non-transgenic plant comprising: transforming plant host cells with a genetic construct, said construct comprising [a tissue-preferred, tissue-specific, or temporally-regulated] a seed preferred or seed specific promoter driving expression in developing seeds [or related maternal tissue,] operably linked to an isolated polynucleotide encoding an isopentenyl transferase, wherein said construct further comprises an isolated polynucleotide encoding a selectable marker, and wherein the isolated polynucleotides are expressed in the transformed plant cells; regenerating plants from said transformed cells; and [recovering] selecting [said] plants with increased cytokinin content in seeds by screening for the presence of the selectable marker.—
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart F. Baum whose telephone number is 571-272-0792. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on 571-272-0804. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Art Unit: 1638

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

Stuart F. Baum Ph.D. Patent Examiner Art Unit 1638 March 7, 2005

> AMY J. NELSON, PH.D SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600